

Claims as Amended:

The following is a complete list of claims, replacing all prior versions of the claims in this patent application.

WHAT IS CLAIMED IS:

- 1 Claim 1 (original): A method of forming an optical lens, the method comprising the steps of:
2 a) mixing together an optically clear dead polymer, a reactive plasticizer in an
3 amount to render the composition semi-solid and malleable, and an initiator
4 to form a semi-solid polymerizable composition, wherein the dead polymer
5 and the reactive plasticizer exhibit compatibility at temperatures not higher
6 than 100°C, and wherein the polymerizable composition remains optically
7 clear and exhibits low shrinkage when polymerized;
8 b) shaping the semi-solid composition into a desired geometry; and
9 c) exposing the semi-solid composition to a source of polymerizing energy;
10 to give the resultantly optically clear lens comprising a crosslinked polymer network of reactive
11 plasticizer within an entangled dead polymer.
- 1 Claim 2 (original): A method according to claim 1 wherein the optically clear lens comprises a
2 semi-interpenetrating crosslinked polymer network of reactive plasticizer within an entangled
3 dead polymer.
- 1 Claim 3 (original): A method according to claim 2 wherein the polymer network of reactive
2 plasticizer is further crosslinked to the dead polymer.
- 1 Claim 4 (original): A method according to claim 1 wherein the optically clear lens comprises
2 interpenetrating reactive plasticizer polymeric chains within an entangled dead polymer.
- 1 Claim 5 (original): A method according to claim 1 wherein the optically clear lens is impact-
2 resistant.

1 Claim 6 (original): A method according to claim 1 wherein the optically clear lens exhibits high
2 fidelity replication.

1 Claim 7 (original): A method according to claim 1 wherein the optically clear lens exhibits
2 dimensional stability.

1 Claim 8 (original): A method according to claim 1 wherein the optically clear lens is an
2 ophthalmic lens.

1 Claim 9 (original): A method according to claim 1 wherein the semi-solid composition is shaped
2 by placing the semi-solid composition in contact with a mold, the mold corresponding to the
3 desired geometry.

1 Claim 10 (original): A method according to claim 9 wherein the semi-solid is shaped by placing
2 it into about the center of the mold, such that shaping the semi-solid while optionally heating
3 causes the semi-solid composition to flow radially outward.

1 Claim 11 (original): A method according to claim 1 which further comprises the step of
2 providing a waiting period at a predetermined temperature after the composition is shaped and
3 before exposing to the source of polymerizing energy.

1 Claims 12-18 (canceled)